

# Global Battery Electrode Roll Press Machine Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Battery Electrode Roll Press Machine market size is expected to reach \$ 2039 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

Battery Electrode Roll Press Machine is a specialized rolling/calendering equipment widely used in battery manufacturing, especially for lithium-ion and advanced energy storage batteries. Structurally, the machine consists of two high-hardness metal rollers, a drive unit, transmission mechanism, adjustable pressure/gap system, rigid frame, and safety guards. The appearance resembles a horizontal dual-roller assembly mounted on a steel frame, with variants including manual, electric, hydraulic, or automated pressure control models, and optional unwind/rewind assemblies for roll-to-roll processing. Technically, the equipment demands precision in roller hardness (typically HRC60+), surface finish, gap adjustment accuracy, and stable drive control to ensure uniform thickness and density of electrode sheets. The working principle involves applying controlled pressure and a precisely regulated gap between the rollers to compress and densify coated electrode materials after drying, improving electrode energy density, conductivity, and overall performance. This type of equipment is used across laboratory research, pilot trials, and industrial production lines. Providers include battery equipment manufacturers and automation solution suppliers, offering a range from compact lab-scale roll presses to fully integrated continuous roll-to-roll calendering systems

Under the rapid development of the global power battery industry, the Battery Electrode Roll Press Machine has seen significant market development opportunities and key driving factors, as it is a key piece of equipment in the front end of battery manufacturing for electrode preparation. Demand for electric vehicles and energy storage systems has steadily increased, leading to continuous expansion of battery

production capacities and rapid growth in the market for battery production equipment, especially electrode preparation machines. According to industry research, China's lithium battery roll press equipment market size grew from approximately RMB 3.2 billion in 2022 and is expected to exceed RMB 6 billion by 2025, with a compound annual growth rate above 23% from 2019 to 2025. This growth is driven primarily by the advancement of EV battery performance requirements, higher manufacturing automation levels, and localization of the supply chain. First, the demand for higher energy density, longer life, and improved consistency of battery cells requires better control of electrode density and thickness uniformity, which roll press machines directly address. Second, global battery manufacturers are increasingly investing in smart, automated production, making high-precision, high-efficiency roll press machines essential for remaining competitive. Additionally, supportive industrial policies have fostered a more complete domestic supply chain from raw materials upstream to vehicle assembly downstream, creating more room for equipment market expansion. For example, Xingtai Naknor Technology Co., Ltd. (BJSE 832522, Hebei China), headquartered in Xingtai, China, is a leading domestic roll press equipment maker that has leveraged its high-precision machines and innovation in dry electrode processes to gain competitive advantage as the industry shifts from wet to dry and solid-state electrode technologies. Likewise, Shenzhen Yinghe Technology Co., Ltd. (SZSE 300457, Shenzhen China) and Wuxi Lead Intelligent Equipment Co., Ltd. (SZSE 300450, Jiangsu China) have strengthened their equipment offerings amid increasing production line upgrades in the battery industry. Despite these opportunities, market challenges and risks remain notable. The roll press machine sector is technically demanding, requiring deep R&D capabilities and significant capital investment, which presents barriers for new entrants. Although Chinese manufacturers have made progress in independent equipment development, they still face challenges in matching the highest global standards in high-end machinery, intelligent control, and process innovation. Demand for battery production equipment is also closely tied to cyclical trends in EV sales and broader economic conditions, meaning shifts in vehicle demand can directly impact equipment orders. International trade tensions and regulatory changes present additional uncertainties for global supply chain strategies. Heightened competition and cost pressures may also limit R&D investments and slow market expansion for some firms. Downstream demand trends indicate that the market for roll press machines is evolving toward higher efficiency, greater intelligence, and compatibility with advanced battery technologies. The industry is moving from traditional cylindrical and pouch cell formats toward larger cell formats, dry electrodes, and solid-state batteries, requiring machines that can maintain stable operation under higher throughput, larger formats, and more challenging materials. Digital transformation is another key trend, with real-time data collection and process optimization becoming

necessary for quality control across production lines. Battery manufacturers' pursuit of tighter process control and higher yields is driving the adoption of intelligent control systems, sensor integration, and remote maintenance solutions in roll press equipment. As EVs and energy storage applications demand longer life and enhanced safety, uniform electrode pressing becomes an increasingly critical factor in overall battery performance, further boosting demand for high-performance roll press machines. Furthermore, supportive global new energy policies and strong domestic demand for indigenous high-end equipment provide a stable growth outlook for capable domestic manufacturers.

This report studies the global Battery Electrode Roll Press Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Electrode Roll Press Machine and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Battery Electrode Roll Press Machine that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Battery Electrode Roll Press Machine total production and demand, 2021-2032, (Units)

Global Battery Electrode Roll Press Machine total production value, 2021-2032, (USD Million)

Global Battery Electrode Roll Press Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Battery Electrode Roll Press Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Battery Electrode Roll Press Machine domestic production, consumption, key domestic manufacturers and share

Global Battery Electrode Roll Press Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Battery Electrode Roll Press Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Battery Electrode Roll Press Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Battery Electrode Roll Press Machine market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hitachi Power Solutions, Manz AG, Nagano Automation, Youth Engineering, PNT, Naura Technology Group, Wuxi Lead Intelligent Equipment, Shenzhen Yinghe Technology, Shenzhen Haoneng Technology, Minder Hightech Engineering GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Battery Electrode Roll Press Machine market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Battery Electrode Roll Press Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Battery Electrode Roll Press Machine Market, Segmentation by Type:

Manual

Semi-automatic

Full-automatic

#### Global Battery Electrode Roll Press Machine Market, Segmentation by Calendering Temperature Process:

Hot Calendering Machine

Cold Calendering Machine

Isothermal Calendering Machine

Dual-Mode (Hot & Cold) Calendering Machine

#### Global Battery Electrode Roll Press Machine Market, Segmentation by Precision Control Level:

Standard Precision Calender

High Precision Calender

Ultra-High Precision Calender

Nano-Level Precision Calender

Global Battery Electrode Roll Press Machine Market, Segmentation by Drive System Type:

Mechanical Drive Calender

Hydraulic Drive Calender

Servo Motor Driven Calender

Direct Drive Calender

Global Battery Electrode Roll Press Machine Market, Segmentation by Application:

Power Battery

Consumer Electronics Battery

Energy Storage Battery

Companies Profiled:

Hitachi Power Solutions

Manz AG

Nagano Automation

Youth Engineering

PNT

Naura Technology Group

Wuxi Lead Intelligent Equipment

Shenzhen Yinghe Technology

Shenzhen Haoneng Technology

Minder Hightech Engineering GmbH

Xiamen Aot Electronics Technology

CKD Corporation

Komatsu NTC

Bosch Rexroth

Xingtai Naknor Technology

**Key Questions Answered:**

1. How big is the global Battery Electrode Roll Press Machine market?
2. What is the demand of the global Battery Electrode Roll Press Machine market?
3. What is the year over year growth of the global Battery Electrode Roll Press Machine market?
4. What is the production and production value of the global Battery Electrode Roll Press Machine market?
5. Who are the key producers in the global Battery Electrode Roll Press Machine market?
6. What are the growth factors driving the market demand?

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